Rabia Abdul Ghafoor

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EDUCATION

Indiana University Bloomington   **Bloomington, IN**
Bachelor of Science - BS, Computer Science,   January 2022 - May 2025

PROFESSIONAL EXPERIENCE

ConTracker   **Hyderabad, India**
Founder and Student Developer   *January 2020 - October 2021*
- Developed ConTracker, an iOS proptech mobile app that tracks the construction of luxury homes.
- Created Wireframes, UML Diagrams, Structure, and Flowcharts for the app using Mockflow. • Designed UI for mobile app using Sketch, and developed Front-end using Swift5; Back-end using parse and cocoapods. • User-tested the app, and created development timelines. • Integrated the feature of remote push notifications (RPNs) into the app.
- Employed Object Oriented Programming (OOPS) techniques such as abstraction, and encapsulation for writing the code.

Beehyv Software Solutions   **Hyderabad, India**
Design Intern   *January 2020 - January 2020*
- Designed wireframes for a calendar iOS mobile app.
- Completed capstone projects by implementing agile methodologies for product development.

PROJECTS

Flower Shop Project   *April 2024 - April 2024*
- Developed Frontend using HTML, CSS, Javascript, and deployed Github Pages. Utilized Postman to send API requests in JSON. • Developed backend using spring boot application, and deployed on Render; connected the database using Dbeaver.
- Implemented the add and delete features for add flowers to the cart. Implemented user login and sign up functionality.

RBVenture Link   *May 2024 - Present*
- Developed frontend in collaboration with 2 teammates for RBVenture, an Instagram clone, which lets users record their moments. • Added the login and logout features for potential end-users • Implemented the backend logic to add, update, and delete images. Integrated API requests using Postman.

RenewTube   *May 2024 - Present*
Developing RenewTube, an app that utilizes ffmpeg libraries to change the existing video quality to 360p, 420 and 720p.

Image Processing Project Link   *March 2024 - April 2024*
- Collaborated with 3 teammates to develop a primitive image editor using Java, implementing basic image manipulation algorithms such as grayscale conversion, red channel removal, image inversion, cropping, mirroring, and repeating patterns.
- Implemented a PPM image reader and writer by extending an abstract Image class, managing file I/O operations, and utilized Java Color class for pixel manipulation. • Created a weather forecast application that performs HTTP, GET requests for a weather API, parses JSON data using the Json library, and displays a formatted 7-day weather forecast with configurable parameters via terminal arguments. • Enhanced terminal-based user interaction by handling various command-line arguments for image processing and API connectivity.

Routing Wires Project Link   *April 2024 - April 2024*
Segment Intersection Project   *February 2024 - February 2024*
Flood Tiles Game   *January 2024 - January 2024*

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

INgineering at IU   **Bloomington, IN**
President   *May 2023 - Present*
- Managed long-term vision and operations, held biweekly meetings with Senior Advisors. • Grew the club membership from 20+ members to 60+ members. • Managed the funding allocation for the Marketing, Finance and Operations Departments.
- Initiated semester-long partnership with the QuTE, a quantum computing club. • Conducted Annual Hackathons in collaborations with 4 other clubs, Computer Science Club, Google Developer Student Club, Women in Computing, DSC club.

Venture Capitalists at IU   **Bloomington, IN**
Vice President of Operations   *January 2023 - December 2023*
|Director of Operations   *March 2022 - December 2022*
- Organized club's weekly meetings and guest speaker events by creating event requests with the Student Activities Office.
- Researched and developed presentations tailored to events to educate general members on the venture ecosystems.
- Coordinated with the vice-presidents to streamline operations and regulated internal club agendas.

Indiana University, Luddy School of Informatics, Computing and Engineering   **Bloomington, IN**
Undergraduate Student Researcher   *September 2022 - December 2022*
- Employed computational techniques to analyze voter sentiments, predict fraud, and the spread of misinformation on social media during U.S Midterm Elections 2022. • Collaborated with researchers to compile a 90+ keyword list; estimated the prevalence of misinformation on the images gathered. • Researched and Collected data from Twitter/X, and Meta to classify tweets, and images, and generated graphs using excel to assign their credibility as high or low.

TOOLS AND TECHNOLOGIES

Postman | Dbeaver | PostgreSQL | Java | HTML | CSS | Javascript | Python | TypeScript | Docker | Git | C | Firebase | Swift